

**REMARKS**

Claims 1-8 are pending, with claim 1 being independent. Claim 1 has been amended to recite, “receiving at a phase and frequency detector the oscillator signal and a reference signal; generating a phase and frequency output based on a timing difference between the oscillator signal and the reference signal; receiving at the charge pump the phase and frequency output; and generating the phase error signal based on the phase and frequency output,” and to address matters of form. Support for these amendments may be found, for example, in FIG. 10 and on page 18, lines 9-20 of the specification.

Claim 3 has been amended to recite that the frequency divider generates a “divided oscillator signal.” Support for this amendment may be found, for example, in FIG. 10 and on page 18, lines 9-20 of the specification.

No new matter has been added.

### **CLAIM OBJECTIONS**

Claims 1-8 were objected to due to informalities in claim 1. Applicant respectfully submits that amendments to claim 1 satisfy these objections, and respectfully requests that these objections be withdrawn.

**§ 112 REJECTIONS**

The Office Action dated September 18, 2008 rejected claim 3 under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement. Applicant respectfully submits that the amendments to claim 3 overcome this rejection, and respectfully requests that this rejection be withdrawn.

### **§ 103 REJECTIONS**

The Office Action dated September 18, 2008, rejected claims 1-5 and 8 under 35 U.S.C. § 103(a) as being unpatentable over Volk, U.S. Patent No. 5,384,502, in view of Everitt et al., U.S. Patent No. 6,188,739, and Takashi et al., U.S. Patent No. 5,805,024. Applicant respectfully submits that these references do not disclose, “receiving at a phase and frequency detector the oscillator signal and a reference signal; generating a phase and frequency output based on a timing difference between the oscillator signal and the reference signal; receiving at the charge pump the phase and frequency output; and generating the phase error signal based on the phase and frequency output” as recited in amended claim 1 and shown in FIG. 10. Applicant respectfully submits that Volk, the primary reference relied upon in the Office Action, discloses only a single loop, and does not disclose the two loops recited in claim 1 and shown in FIG. 10. No motivation has been shown to modify Volk to include two loops. Accordingly, Applicant respectfully requests that the rejection of claim 1 be withdrawn. Applicant further requests that the rejections of claims 2-5 and 8 be withdrawn at least due to their dependence on claim 1.

The Office Action rejected claim 6 under 35 U.S.C. § 103(a) as being unpatentable over Volk in view of Everitt and Takashi, and further in view of Voorman, U.S. Patent No. 4,780,690. Applicant respectfully submits that Voorman does not compensate for the deficiencies of Volk, Everitt, and Takashi in failing to disclose or render obvious all of the elements of claim 1. Accordingly, Applicant respectfully requests that the rejection of claim 6 be withdrawn due to its dependence on claim 1.

The Office Action rejected claim 7 under 35 U.S.C. § 103(a) as being unpatentable over Volk in view of Everitt and Takashi, and further in view of Hotine, U.S. Patent No. 4,656,647. Applicant respectfully submits that Hotine does not compensate for the deficiencies of Volk, Everitt, and Takashi in failing to disclose or render obvious all of the elements of claim 1. Accordingly, Applicant respectfully requests that the rejection of claim 7 be withdrawn due to its dependence on allowable claim 1.

Conclusion

Applicant believes that all pending claims are in condition for allowance and respectfully requests notification to that effect. The Examiner may telephone Applicant's attorney (208-286-1013) to facilitate prosecution of this Application.

If necessary, please charge any additional fees or credit overpayment to Deposit Account No. 50-3521.

Respectfully submitted,

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Date January 21, 2009

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